

CLAIMS

1. A fuel cell system including a fuel cell body (S); a first portion (2) continuously supplied with heat following start up of the fuel cell body (S); a second portion (7) continuously supplied with heat following start up of the fuel cell body (S); and a hydrogen exhaust valve (3, 4), characterised in that

the first portion (2) and the second portion (7) are directly fixed to each other with the hydrogen exhaust valve (3, 4) disposed therebetween.

2. The fuel cell system according to claim 1, characterised in that

the first portion (2) is a gas-liquid separation unit supplied with heat from exhaust gas from the fuel cell body (S).

3. The fuel cell system according to claim 1, characterised in that

the first portion (2) is an end plate provided in a stack configured by the fuel cell body (S).

4. The fuel cell system according to claim 1, characterised in that

the first portion (2) includes a cover formed with an internal space that accommodates the hydrogen exhaust valve (3, 4); and

the first portion (2) and the second portion (7) are directly fixed to each other such that the second portion (7) closes the internal space of the cover within which the hydrogen exhaust valve (3, 4) is disposed.

5. The fuel cell system according to claim 1, characterised in that

the second portion (7) is a hydrogen processing unit supplied with heat from exhaust gas from the fuel cell body (S).

6. The fuel cell system according to claim 5, characterised in that

the hydrogen processing unit is a dilution unit.

7. The fuel cell system according to claim 5, characterised in that

the hydrogen processing unit is a combustion unit.

8. The fuel cell system according to claim 1, characterised in that

a spring member is interposed between one of the hydrogen exhaust valve (3, 4) and the first portion (2), and the hydrogen exhaust valve (3, 4) and the second portion (7).

9. The fuel cell system according to claim 1, characterised in that

the hydrogen exhaust valve (3, 4) disposed between the first portion (2) and the second portion (7) is fixed to the first portion (2) and the second portion (7).

10. The fuel cell system according to claim 1, characterised in that

seal mechanisms are respectively interposed between the hydrogen exhaust valve (3, 4) and the first portion (2), and between the hydrogen exhaust valve (3, 4) and the second portion (7).